

APRIL/MAY 2023

**CESC64C — SOFTWARE QUALITY
ASSURANCE**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the goals of SQA?
2. Write short notes on SQAP.
3. Define prototyping model.
4. What is validation?
5. Define Corrective actions.
6. List out the software development process.
7. What is quality management?
8. Define total quality.
9. What are the management responsibilities regarding ISO 9001 requirements?
10. Define CMM.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the uniqueness of software quality assurance.

Or

- (b) Explain about:

- (i) Deliberate deviations from software requirements.
- (ii) Logical design errors.

12. (a) Explain the model for SQA defect removal effectiveness and cost.

Or

- (b) Explain the direct and indirect objectives of the review methodologies.

13. (a) Compare procedures and work instructions.

Or

- (b) Explain the main objectives of training and certification.

14. (a) Write a note on computerized tools for project progress control.

Or

- (b) Explain classic model of cost of software quality.

15. (a) Explain project process standards in SQA.

Or

- (b) Write a short note on certification audits in SQA.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about the software Quality factors.

17. Explain the contribution of CASE tools to software product quality.

18. Illustrate different types of software configuration releases.

19. Describe about the components of project progress control.

20. Explain the various level of CMM that predict the quality of an organization.